

Please amend the claims as follows:

Cancel claims 2, 4, 7, 13 and 15 through 17 without prejudice.

1. (Currently Amended) A gas breathing air analysis apparatus for analyzing samples of breathing air substances and determining if said substances pass gas breathing air purity standards for certification of gas sample quality by a qualified third party other than the user, the apparatus comprising:

a gas breathing air analysis module situated at a breathing air user facility for receiving the contents of a gas breathing air sample, for detecting gas breathing air purity characteristics and for converting said gas purity characteristics into computer-readable data;

a user computer for receiving said computer-readable data connected to an online computer network;

a server accessible on-line by said user computer maintained by a qualified third party situated at a remote site and electrically coupled to said gas breathing air analysis module, said server including a data receiver of computer-readable data related to said gas purity characteristics;

~~means for transmitting said data;~~

said server including a means for storing said computer-readable data related to said gas breathing air purity characteristics; and

means for determining if said gas sample passes certain gas purity requirements for certification by said third party.

2. (Cancelled) The portable gas analysis apparatus of claim 1 wherein said means for transmitting includes connection over a computer network.

3. (Currently Amended) The gas breathing air analysis apparatus of claim 1 wherein said data transmission is via a wireless transmission.

4. (Cancelled) The gas analysis apparatus of claim 1 further comprising means for informing a user if said gas sample has passed said gas purity requirements.

5. (Currently Amended) The gas breathing air analysis apparatus of claim 4 1 wherein said means for informing said user if said gas breathing air sample has passed said gas breathing air purity requirements comprises an electronic message.

6. (Currently Amended) The gas breathing air analysis apparatus of claim 4 1 wherein said means for informing said user if said gas breathing air sample has passed said gas purity requirements comprises a printed message.

7. (Cancelled) The gas analysis apparatus of claim 1 wherein said remote site is an accredited gas purity testing facility.

8. (Currently Amended) The gas breathing air analysis apparatus of claim 1 further comprising means for storing and printing results of said gas breathing air sample analysis.

9. (Currently Amended) The gas breathing air analysis apparatus of claim 1 wherein said portable gas breathing air analysis module comprises:

means for collecting and temporarily storing the gas breathing air sample;

means for detecting gas breathing air impurities in said gas breathing air sample; and

data processing means for converting said detected gas breathing air impurity data into computer readable data, said computer readable data representing gas breathing air impurity characteristics of said gas breathing air sample.

10. (Currently Amended) The gas breathing air analysis apparatus of claim 1 further comprising means for determining whether said gas breathing air sample contains oil particle impurities.

11. (Currently Amended) The gas breathing air analysis apparatus of claim 1 wherein said means for determining if said gas breathing air sample passes certain gas breathing air purity requirements comprises means for comparing said computer-readable

data related to said gas breathing air purity characteristics to a stored set of pre-determined gas breathing air purity standards.

12. (Currently Amended) A method of analyzing a gas breathing air sample without the necessity of transporting the gas breathing air sample to a remote qualified third party gas breathing air testing facility and determining if said substances pass gas breathing air purity standards, the method comprising the steps of:

receiving collecting a gas breathing air sample within a gas breathing air analysis module situated at a breathing air producer user facility;

determining gas breathing air purity characteristics of said gas breathing air sample;

converting said gas breathing air purity characteristics into computer readable data; and

transmitting through an on-line computer network said computer readable data representing said gas breathing air purity characteristics from said user facility to a qualified server for certification of use situated at a remote site and electrically coupled to said gas breathing air analysis module, said server maintained by qualified breathing air personnel capable of certifying breathing air quality and including a receiver for receiving said computer readable data via a data transmitter, said server containing a data storage element for storing said computer readable data; and

determining if said gas breathing air sample passes certain gas purity requirements; and

informing a user if said breathing air sample has passed said breathing air purity requirements using an on-line response to said user's computer.

13. (Cancelled) The method of claim 12 wherein said data transmission is via a computer network.

14. (Original) The method of claim 12 wherein said data transmission is via a wireless transmission.

15. (Cancelled) The method of claim 12 wherein further comprising the step of informing a user if said gas sample has passed said gas purity requirements.

16. (Cancelled) The method of claim 12 wherein said step of informing the user if said gas sample has passed said gas purity requirements comprises an electronic message.

17. (Cancelled) The method of claim 12 wherein said step of informing the user if said gas sample has passed said gas purity requirements comprises a printed message.

18. (Currently Amended) The method of claim 12 wherein said remote site is an accredited gas breathing air purity testing facility.

19. (Currently Amended) The method of claim 12 further comprising the steps of storing and printing results of said gas breathing air sample analysis.

20. (Currently Amended) The method of claim 12 wherein said means for determining if said gas breathing air sample passes certain gas breathing air purity requirements comprises the step of comparing said computer-readable data related to said gas breathing air purity characteristics to a stored set of pre-determined gas breathing air purity standards.